

ABSTRACT

There is provided a diamond wheel rolling on the surface of a brittle material without sliding thereon and hardly forming horizontal cracks.

A diamond wheel 8 forms a scribe line on the surface of the brittle material while rolling thereon. In this diamond wheel, diamond grains 15, 15, --- of 1000 to 8000 mesh are carried by a bonding agent. The diamond grains projecting from the bonding agent 16 easily bite the brittle material, so that the diamond wheel can roll on the brittle material without sliding even in no application of load more than necessary.